

PRODUCT-DETAILS

LS45M11B02

LS45M11B02 Limit Switch



General Information

Extended Product Type	LS45M11B02
Product ID	1SBV013111R1202
EAN	3471522612601
Catalog Description	LS45M11B02 Limit Switch
Long Description	LS45M11B02 is a 40 mm wide, standard reinforced Limit Switch made of zinc alloy material (Zamak), with 4 mounting holes at the top and bottom, 1 1/2" NPT cable entry on the bottom, plain stainless steel plunger actuator and 2 N.C snap action (Zb type) contacts

Ordering

EAN	3471522612601
Minimum Order Quantity	10 piece
Customs Tariff Number	85364900

Dimensions

Product Net Width	40 mm
Product Net Height	107 mm
Product Net Depth / Length	44 mm
Product Net Weight	0.222 kg

Container Information

Package Level 1 Units	1 piece
Package Level 1 Width	45 mm
Package Level 1 Height	130 mm
Package Level 1 Depth / Length	47 mm
Package Level 1 Gross Weight	0.24 kg
Package Level 1 EAN	3471522612601
Package Level 2 Units	1 piece
Package Level 2 Gross Weight	0.24 kg

Environmental

Ambient Air Temperature	Operation -25 ... +70 °C Storage -30 ... +80 °C
Resistance to Vibrations acc. to IEC 60068-2-6	25g (10 to 500 Hz) no change in position of contacts greater than 100 µs
Resistance to Shock acc. to IEC 60068-2-27	Half-sine Pulse for 11 ms, No Change in Contact Position 50 m/s ²
RoHS Status	Following EU Directive 2011/65/EU

Technical UL/CSA

Pilot Duty of Contact Elements acc. UL508	A600 Q600
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Safety Information

B10d Value	50 Millions operations
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Additional Information

Action Type of the Contact Element (acc. to IEC 60947-5-1)	Snap action contacts
Actuator Type	stainless steel plain plunger
Actuating Force	Minimum Force acc. to IEC 60947-5-1 22 N
Actuation Speed	acc. to IEC 60947-5-1 Max. 0.5 m/s acc. to IEC 60947-5-1 Min. 0 m/s
Angular Head Adjustment	adjustable head every 90°
Angular Lever Adjustment	none
Climatic Withstand	according to IEC 68-2-3 and salty mist according to IEC 68-2-11
Conventional Free-air Thermal Current (I _{th})	acc. to IEC 60947-5-1, q = 40 °C 10 A
Connecting Capacity	Bar AWG 20 ... AWG 14 mm ² Bar 0.5 ... 2.5 mm ²
Consistency (Measured over 1 Million Operations)	0.05 mm
Contact Element Form (acc. to IEC 60947-5-1)	Zb
Connecting Terminals (delivered in open position)	M3.5 (+,-) pozidriv 2 screw with cable clamp

Degree of Protection	acc. to IEC 60529 IP66
Electrical Shock Protection acc. to IEC 536	Class I
Maximum Electrical Switching Frequency	3600 cycles per hour (AC-15) 3600 cycles per hour (DC-13) 3600 cycles per hour
Mechanical Durability	0 cycle
Mounting by Screws (not supplied)	2 or 4 x M5 screws
Mounting Position	all positions are authorised
Movement to be Detected	on end
Number of Auxiliary Contacts NC	2
Number and Type of Bottom Cable Glands	1/2 NPT cable gland
Operating Head Shape	B shape acc. EN 50041
Order Multiple	1 piece
Positive Opening Operation Force (Direct Opening Action)	Minimum Force acc. to IEC 60947-5-1 66 NEW
Positive Opening Operation of NC Contact (s)	Yes
Product Main Type	LS40
Product Name	Limit Switch
Rated Frequency (f)	Supply Circuit 50 60 Hz
Rated Impulse Withstand Voltage (U _{imp})	6 kV
Rated Insulation Voltage (U _i)	acc. to IEC 60947-5-1 and VDE 0110 (Gr. C) 500 V acc. to UL/CSA 600 V
Rated Operational Current AC-15 (I _e)	(230 V AC) 3.1 A (400 V) NC 4 (24 V) 10 A (130 V) 5.5 A (240 V) 3 A
Rated Operational Current DC-13 (I _e)	(24 V) 6 A (110 V) 0.6 A (125 V) 0.55 A (250 V) 0.4 A
Resistance Between Contacts	25 E45
RoHS Date	20171115
Standards	IEC 60947-1, IEC 60947-5-1, EN 60947-1, EN 60947-5-1, UL 508 and CSA C22 -2 N°14
Terminal Marking	according to EN 50013
Terminal for Protective Conductor	M 3.5 (+,-) pozidriv 2 screw with cable clamp

Certificates and Declarations (Document Number)

CQC Certificate	CQC2004010305127663
cUL Certificate	9AKK107991A7379
Data Sheet, Technical Information	1SBC141157C0202
Declaration of Conformity - CCC	2020980305001785
Declaration of Conformity - CE	1SBD250883U1000
Environmental Information	1SBD250102E1000
Instructions and	1SBC141157C0202

Manuals

RoHS Information	1SBD250883U1000
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Classifications

ETIM 4	EC001829 - Position switch modular
ETIM 5	EC001829 - Position switch modular
ETIM 6	EC000030 - End switch
ETIM 7	EC000030 - End switch
UNSPSC	39121500
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)

Categories

Low Voltage Products and Systems → Control Products → Sensors → Limit Switches

